

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

Spill Status: FINAL

	Date	Time
Reported:	12/03/2008	12:58
Discovered:	12/02/2008	10:00
Occurred:	00/00/0000	

Reported By: MIKE GERBER

Title: OSC

Affiliation: AGENCY/PERSON CALLING - IN DIST. O

Telephone: (800) 686-6930

Extension:

Spill Location Information

County: ALLEN	Latitude: 40-50-50.4 N
City/TWP: MONROE TWP	Longitude: 84-04-56.3 W
Location: 7570 OTTAWA RD @ OLD FERTILIZER PLANT	
Waterway: WARRINGTON DITCH DIRECT & VIA STORM SEWER	
Length: 1	
Land Area: SOIL UNDER STORAGE BUILDINGS	

Entity Information

Name/Company: SOUTHERN ILLINOIS RAILCAR

Address: 7570 OTTAWA RD

City: CAIRO

State: OH

Zip Code: 45820

Telephone: (419) 641-3551

Ext:

SPCC Plan Req:

SPCC Plan in Effect:

Entity Representatives

Name	Title	Phone	Extension
MICHAEL MILLER	PLANT MANAGER	(419) 641-3551	
KEITH BOUQUET	PRESIDENT SIRC	(618) 343-0600	

Products Spilled

Product	Amount	UOM	Type
WASTE LIQUID (HIGH AMMONIA & NITRATE)	.0	UNK	WC

Source: FIXED FACILITY - BUSINESS - OTHER

Cause: LEACHING NOT FROM CONT. SOIL

Reason: UNKNOWN REASONS

Media Affected: LAND OR LAND SURFACE IMPACT
SURFACE WATER/STORM SEWERS

Other Contacts

Name	Title	Phone	Extension
OSC BRIAN KELLY	US EPA ER	(734) 740-9019	
OFFICER CRAIG BARR	ODNR W/L	(419) 348-7243	
RUSS DECKER	ALLEN CO. EMA DIR.	(419) 993-1404	
STEVE CARR	ALLIED ENVIRONMENTAL SUPER.	(800) 992-5781	
DOUG HANES	ALLIED ENVIRONMENTAL ER FIELD SU	(419) 302-3254	
BRENT GOETZ	DSIWM INVESTIGATOR	(419) 373-4114	
CHAD DELBECQ	DAPC INVESTIGATOR	(419) 373-3130	
MATT ELKINS	ALLIED PROJECT GEOLOGIST	(419) 229-4106	
MICHAEL BLAIR & ANDY	WESTON PROJECT LEADERS	(440) 202-2808	

Referrals

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

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Person	Agency Name	Referral Date
ARCHIE LUNSEY	OHIO EPA REMEDIAL & SPECIAL INVESTIGAT	12/04/2008
TOM POFFENBARGER	DIV SURFACE WATER /WASTE WATER	12/03/2008

Supporting Documentation

Document	Document Date	Pages
ACCEPTANCE OF FINAL RESPONSIBILITY FORM	12/03/2008	1
PHOTOS/SLIDES	12/03/2008	41
NOTICE OF VIOLATION	12/03/2008	1
AERIAL PHOTO	12/04/2008	1
PHOTOS/SLIDES	12/05/2008	6
AERIAL PHOTO	12/05/2008	1
OTHER	12/05/2008	1
SAMPLING RESULTS	12/05/2008	1
WORK PLAN	12/05/2008	15
AGENCY LETTER	12/09/2008	1

Field Samples

Sample Id	Sample Description
	AMMONIA (CHEMET)
	AMMONIA (CHEMET)
	AMMONIA (CHEMET)

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

Status: CONTINUING

Activity Date: 12/03/2008

Phone Followup: NO

12/02/2008

While on a follow up site visit of a gasoline spill, Incident # 0812-02-4508, I detected a brown discoloration of the surface water in Warrington Creek behind the Ohio Ag Chemtrade facility (7570 SR 65), downstream of the gasoline migration and second earth dam installed during that incident. I had also discovered a drainage trench on the Chemtrade property discharging to a black drainage tile along the east side of SR65. The liquid in this trench was dark brown, and I had been informed by Mr. Russ Decker (Allen Co. EMA Dir.; 419 993 1404), that the facility was a fertilizer company. During the course of the follow up visit, I took a water sample from the creek and from the trench at the road berm. While on scene I took photos of the creek and trench areas.

At 1730 hours I checked the two samples collected with the Ohio EPA Chemtics Kits # K-6902D (Nitrate) & K-1510B (Ammonia). The field kit results showed an ammonia level in the creek between 800 ppm and 1000 ppm, and over the 1200 ppm from the trench liquid. Nitrate levels from both the trench and creek samples were over the 150 ppm level of the kit. An Email was sent with the photos and field screening results to Mr. Tom Poffenbarger (Ohio EPA DSW) who had been informed of my findings and OSC Brian Kelly (US EPA OSC; 734 740 9019) who was working on Incident # 0812-02-4508 with me.

12/03/2008

At 1200 hours I made a follow-up site visit to 0812-02-4508, and took an ammonia sample from the storm sewer catch basin along SR 65 where the gasoline had entered from the Ottawa Oil tanker (which was downstream from the Chemtrade drainage trench). The field screening result from the catch basin was over the 1200 ppm level of the kit. The only liquid in the catch basin was some residual gasoline and water flowing from the south discharge tile.

After obtaining the field sample, I contacted OSC Kelly, and ER/SI Manager Kevin Clouse, to inform them of my findings.

At the facility, I met Mr. Michael Miller (Plant Manager, Southern Illinois Railcar; 419-641-3551) who was informed of my findings, and was requested to stop the migration of ammonia/nitrate waste liquid from his property into the storm sewer system and Warrington Ditch. Mr. Miller stated that the facility was no longer a fertilizer plant (which it had been for the past 40 to 50 years), but was a rail car repair shop under the new owner. Mr. Miller stated that his company was in the process of demolishing the fertilizer storage buildings. The demo from the buildings was being handled by Miller Construction, and Ohio EPA Rep. (Mr. Brent Goetz) had been on scene. Mr. Miller was provided local cleanup contractors names and numbers.

Emergency Response Section - District Office Investigation Report (DOIR)

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OSC: 1776 - GERBER, MIKE

Status: CONTINUING

Activity Date: 12/03/2008

Phone Followup: NO

12/03/2008

While Mr. Miller contacted a contractor (Allied Environmental, Mr. Steve Carr and Doug Hanes; 800 992 5781), he gave me permission to walk the property. In areas where the fertilizer storage buildings once stood, puddles of dark brown liquid were observed on the soil surface. A drainage trench running along the north side of the property (discharging to the west into the black tile east of SR 65) had a large amount of dark brown liquid in it. A 2 inch yellow tile was observed on the south bank of the ditch adjacent to the facilities rail track, discharging a dark brown liquid and white solid material. Dark brown liquid was observed south of the ditch, and along the west side of the remaining fertilizer building that was still standing. Dark brown liquid was observed along the foundation wall of this building leading to a tile discharging to the north ditch. Inside this fertilizer storage building, residual fertilizer was observed on the cement floor along with standing water. Several dark brown puddles of liquid were observed around areas where fertilizer storage buildings once stood on the center section of the property (west side of the rail car repair shop). There was a strong urea (ammonia) odor on the downwind side of the area where the fertilizer storage buildings were located and demolished.

After Mr. Miller had contacted Allied Environmental Services, he showed me around the site. He stated that the drainage from the property flowed both east and west through a sewer system. I took field ammonia screening samples of the liquid in both drainage trenches on the west side of the property, and samples from the dark puddles on the property near the standing fertilizer building and areas where the buildings had been taken down. The two ammonia samples taken from the drainage trench were over the 1200 ppm level of the kit, and the ammonia levels from the puddles ranged from 480 ppm to over the level of the kit (1200 ppm).

While on scene, I contacted Mr. Decker and OSC Kelly who were updated on the site. Mr. Decker was responding to the scene, and assisted with documentation through the Allen Co. Sheriff's Department. OSC Kelly requested that a formal Ohio EPA Referral though Mr. Clouse be made. I also updated ER Supervisor Mike Czezele, and NWDO DSW, DAPC and DSIWM Reps (Mr. Chad Delbecq and Mr. Brent Goetz) concerning demo material which was being staged on the east section of the property and asbestos observed. ODNR W/L Officer Craig Barr (419 424 5000) was contacted and informed of the incident.

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

Status: CONTINUING

Activity Date: 12/04/2008

Phone Followup: NO

12/03/2008

When Allied Environmental Reps. (Mr. Carr and Mr. Hanes) arrived on scene, they were shown around the property, and while they started containment actions, I checked the drainage on the east side of the property from Warrington Ditch back to a green drainage tile discharging from the west to east directly into the Creek. Ammonia levels from the clear liquid discharging from the tile were between 240 ppm and 380 ppm. Ammonia levels from dark puddled liquid around a bulk solid storage building was 100 ppm. In the area where demo material was being staged in piles, a strong urea odor was detected on the downwind side. No liquid pooling or puddles were detected around the piles.

While on scene, I took 41 photos at 4.1 hours, and provided Mr. Miller with an N.O.V. and Letter of R.P. Acknowledgement. I also provided him with the Ohio Reporting Requirements. Before leaving the area, I took an ammonia sample from the upstream side of Hook-Waltz Rd. The ammonia level was found to be 0.3 ppm and the surface water was clear of any discoloration.

At this time, emergency actions will consist of earth dams at all surface drainage areas on the property (two to the west and one to the east), and recovery of liquid waste from the property into storage containers. On 12/05/2008 OSC Kelly will arrive along with Mr. Poffenbarger. Mr. Miller has been informed that he will need an environmental consultant to start an investigation of the property.

At 1754 hours I left the scene.

12/04/2008

At 0900 hours to 1000 hours the DOIR was started.

At 0913 hours I was updated by Mr. Carr who stated that over 3,000 gallons of waste liquid had been recovered from puddles on the property, and today Allied Workers were continuing free liquid recovery from the north ditch area.

At approximately 1100 hours I received a phone call from Mr. Keith Bouquet (President of Southern Illinois Railcar; 618 343 0600) and other Company Officials who were updated on my response. They were provided with Ohio EPA Divisional Contact phone numbers (Assist. Chief Eric Getz, Mr. Delbecq, Mr. Goetz, and Mr. Poffenbarger). Mr. Bouquet confirmed the containment actions being taken by Allied Environmental, and stated that he would be at the site on 12/05 to meet with US EPA OSC Kelly.

Later in the day, I E-Mailed the site photos and a site diagram from my response to Mr. Bouquet and OSC Kelly.

At 1646 hours I was updated by Mr. Hanes who stated that Allied Workers had pumped 10,000 gallons of waste liquid into containment and had discovered a pit containing waste liquid under the fertilizer storage building. Sample results should be in AM 12/05.

Emergency Response Section - District Office Investigation Report (DOIR)

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OSC: 1776 - GERBER, MIKE

Status: FINAL

Activity Date: 12/08/2008

Phone Followup: NO

12/05/2008

At 1000 hours I made a follow-up site visit and had a meeting with OSC Kelly, Keith Fusinski US EPA ERT Rep.; Mr. Poffenbarger; Mr. Bouquet and Mr. Miller; Weston Solutions Reps. (Mr. Michael Blair and Mr. Andy Ravis, 440 202 2808); and Allied Environmental Reps. (Doug Hanes, Matt Elkins, and Chad Reynolds). Allied Environmental presented their work plan for the investigation and recent findings. To date, Allied Workers have pumped 15,000 gallons of ammonia contaminated waste liquid from the creek, on site puddles and drainage trench, and elevator pit under the standing fertilizer storage building. Water samples show ammonia readings above 2000 ppm from the west drainage area of the property, and readings of 228 ppm to 728 ppm from the east drainage area. Allied provided their Health and Safety Plan for the site along with plans to conduct on site surface soil borings and two groundwater samples.

After the presentation, we all walked the site. The elevator pit was observed in the standing fertilizer building (building on the south side of the building). Mr. Hanes stated that when the pit was pumped, the liquid on the floor of the building disappeared. The liquid level in the pit had dropped approximately 3 feet. Another pit area was observed on the north side of the fertilizer building which had been demolished. Mr. Miller stated that this pit was the start of the yellow drainage tile discharging into the northern property drainage trench along the rail tracks to the west. The creek was dry, and the earth dams in place. Mr. Bouquet was shown the storm sewer discharge along the south side of Hook-Waltz Rd. which was also dry.

After checking over the site and migration path of the waste, we met back at the facility office and went over the findings with Mr. Bouquet and Allied. Mr. Bouquet will continue to have Allied Environmental Workers collect liquid from their property while the investigation is taking place. He will also secure the earth dams. Mr. Bouquet will look into removal of the demo material and piles of waste on the property to reduce the amount of waste runoff. I informed Mr. Bouquet that I would be closing off the ER Phase of the incident and would be referring it over to Mr. Poffenbarger and Mr. Lunsey.

While on scene, I took 6 photos at 0.6 hours.

At 1212 hours I left the site.

When I returned to HQ, E.R. Supervisor Czezele was updated on my site visit.

12/08/2008

At 0630 hours to 0700 hours the DOIR was updated.

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

Response Date: 12/03/2008

Start Time: 11:30

End Time: 19:24

Total Mileage: 135

Time Code	Regular Time	Overtime	Total
0022	5.8	2.1	7.9
Total Time:			7.9

OSC: 1776 - GERBER, MIKE

Response Date: 12/04/2008

Start Time: 09:00

End Time: 10:00

Total Mileage:

Time Code	Regular Time	Overtime	Total
0100	1.0	.0	1.0
Total Time:			1.0

OSC: 1776 - GERBER, MIKE

Response Date: 12/04/2008

Start Time: 10:00

End Time: 14:00

Total Mileage:

Time Code	Regular Time	Overtime	Total
666	4.0	.0	4.0
Total Time:			4.0

OSC: 1776 - GERBER, MIKE

Response Date: 12/05/2008

Start Time: 10:00

End Time: 13:18

Total Mileage: 115

Time Code	Regular Time	Overtime	Total
0022	3.3	.0	3.3
Total Time:			3.3

OSC: 1776 - GERBER, MIKE

Response Date: 12/05/2008

Start Time: 14:48

End Time: 15:24

Total Mileage:

Time Code	Regular Time	Overtime	Total
666	.6	.0	.6
Total Time:			.6

Emergency Response Section - District Office Investigation Report (DOIR)

Spill Id Number: 0812-02-4523

OSC: 1776 - GERBER, MIKE

Response Date: 12/08/2008

Start Time: 06:30

End Time: 07:00

Total Mileage:

Time Code	Regular Time	Overtime	Total
0100	.5	.0	.5
Total Time:			.5
Grand Total for this Spill:			17.3

Emergency Response Section - Initial Pollution Incident Report (IPIR)

12/10/2008

Spill Id Number: 0812-02-4523//0

District: NW

Reported By: MIKE GERBER Title: OSC Telephone: (800) 686-6930 ext: Affiliation: AGENCY/PERSON CALLING - IN DIST. OF	Reported: 12/03/2008 12:58 Discovered: 12/02/2008 10:00 Occurred: 00/00/0000 Chronic: Y
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County: ALLEN Did Spiller Report ? N Received By: TAYLOR, TODD Local EPC ? N Did you tell the Spiller to Call the N.R.C ? Y Business: Y	City/Township: MONROE TWP Complaint ? N Priority: 3 SARA Report: Y
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Suspected Spiller: SOUTHERN ILLINOIS RAILCAR Mailing Address: 7570 OTTAWA RD CAIRO, OH 45820 Telephone: (419) 641-3551 ext:
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Location: 7570 OTTAWA RD
Source: FIXED FACILITY - BUSINESS - OTHER
Cause: LEACHING NOT FROM CONT. SOIL **Reason:** UNKNOWN REASONS

Waterways Affected: WARRINGTON DITCH **Media Affected 1:** LAND OR LAND SURFACE
Media Affected 2: SURFACE WATER/STORM SEWER **Media Affected 3:** OTHER AREA

Product(s) Spilled

Product	Amount	UOM	RQ	Size	Type	EHS
NITRATES	.0	UNK	.0	U	FC	N

Other Agencies Notified

Agency	Person	Date	Time
RRS/SIS	LUNDSAY	12/03/2008	13:02
RTK	BEATTIE	12/03/2008	13:02

Remark

REPORT OF A LEACHATE ABOVE 1200PPM(AMMONIA) AND 150PPM(NITRATE) NOTED AT ABOVE FACILITY. OSC GERBER NOTED MATERIAL ENTERING THE DITCH. OSC GERBER ON SCENE.

Emergency Response Section - Initial Pollution Incident Report (IPIR)

12/10/2008

Spill Id Number: 0812-02-4523//1

District: NW

Reported By: MIKE MILLER	Reported: 12/03/2008 17:52
Title: MANAGER	Discovered: 12/02/2008 16:10
Telephone: (419) 641-3551 ext:	Occurred: 00/00/0000
Affiliation: COMPANY	Chronic: Y

County: ALLEN	City/Township: MONROE TWP
Did Spiller Report ? Y	Complaint ? N
Received By: HOLMES, CHRIS	Priority: 3
Local EPC ? N	Did you tell the Spiller to Call the N.R.C ? Y
Business: Y	SARA Report: Y

Suspected Spiller: SOUTHERN ILLINOIS RAILCAR
Mailing Address: 7570 OTTAWA RD
CAIRO, OH 45820
Telephone: (800) 686-6930 ext:

Location: 7570 OTTAWA RD

Source: FIXED FACILITY - BUSINESS - OTHER

Cause: LEACHING NOT FROM CONT. SOIL

Reason: UNKNOWN REASONS

Waterways Affected: WARRINGTON DITCH

Media Affected 1: LAND OR LAND SURFACE

Media Affected 2: SURFACE WATER/STORM SEWER:

Media Affected 3: OTHER AREA

Product(s) Spilled

Product	Amount	UOM	RQ	Size	Type	EHS
AMMONIA	.0	UNK	.0	U	FC	N
NITRATES	.0	UNK	.0	U	FC	N

Other Agencies Notified

Agency	Person	Date	Time
RTK	BEATTIE	12/03/2008	13:02
DSW/WW	WICK	12/03/2008	13:02

Remark

COMPANY NOTIFICATION OF EVENT. OSC GERBER ON SCENE.



NOTICE OF VIOLATION

Division of Emergency and Remedial Response

Date of Discovery: 12/02/2008
Incident Number: 0812-02-4523

SUBMIT INQUIRES TO:

Ohio EPA-DERR
P.O. Box 1049, 1800 WaterMark Drive
Columbus, Ohio, 43266-0149

To: Southern Illinois Railcar 7570 Ottawa Rd CAIRO, OH 45820
(Company/Individual name) (Address) (City, State, Zip Code)

This is to advise you that due to the circumstances noted below you are in violation of one or more of the following chapters of the Ohio Revised Code:

☐ 3704 ☐ 3714 ☐ 3734 ☐ 3750 ☐ 6109 ☒ 6111

Description of the violation(s): On December 02, 2008 at 7570 Ottawa Rd
Monroe Twp, Allen County facility was found in
violation of water pollution status 6111.04 by allowing
waste liquid with high AMMONIA levels (>1200 ppm)
and high NITRATE levels (>150 ppm) (fertilizer waste)
to flow into storm sewer drainage on the east and
west sides of the property into Warrington Ditch.
Warrington Ditch is waters of the state of Ohio.

Violation of any of the laws or regulations cited above may result in civil penalties, fines, and/or imprisonment. Penalties are listed on the back of this form. Each day of each violation is a separate offense. Citation of a violation in this notice does not preclude the citation or existence of other violations. Notice of a violation is not a final action of the Director and is not necessary prerequisite to a violator's liability for or obligation to abate the violation.

Initial abatement actions to be taken (The State of Ohio is not liable for the success or failure or consequences of any abatement actions taken):

- ① STOP ALL WASTE LIQUID MIGRATION OFF PROPERTY
AND INTO WATERWAYS.
- ② REMOVE ALL WASTE LIQUID IN CREEK AND
STORM SEWER LINES. MONITOR DOWNSTREAM
IMPACT IN WARRINGTON DITCH.
- ③ PROPERLY DISPOSE OF ALL WASTE GENERATED IN ACCORD-
ANCE TO STATE AND LOCAL LAWS & REGULATIONS.
- ④ PROVIDE OHIO EPA WITH ALL DOCUMENTATION ON
REMEDIATION OF THE CLEAN-UP.

Ohio EPA reserves the right, pursuant to Chapters 3704, 3714, 3734, 3745, 3750, 6109 and 6111 of the Ohio Revised Code and any other applicable state or federal laws or regulations to require further site investigation and abatement to address release(s) of hazardous wastes, hazardous substances, industrial wastes or other wastes, pollutants or contaminants into the environment at the above designated site and to seek civil penalties, reimbursement of oversight costs, response costs, and any other appropriate legal or equitable relief for any violation of law.

By signing below the party acknowledges receipt of the Notice of Violation but does not admit the fact of or liability for the violation described.

(OEPA representative)

(date)

(phone number)

(authorized representative)

(title)

(date)

(address)

(state)

(zip code)

(phone)

EPA 0324

Distribution: White-Central Office

Canary-District Office

Pink-Other Program

Goldenrod-Facility

Refused to sign
(print name of
representative)

State of Ohio Environmental Protection Agency
DIVISION OF EMERGENCY & REMEDIAL RESPONSE
ACKNOWLEDGMENT OF SPILL RESPONSE & CLEANUP

SPILL #

FACILITY/COMPANY NAME:

Southern Illinois Railcar

This statement shall serve as notification to and acknowledgment by the responsible party(s) (RP) named above/below that it will assume the initiation or continuation of the containment and clean-up of Waste Liquid spilled, released or discharged from soil on property

on 12/03/2008 High Ammonia > 1200 ppm drainage
Substance Date Source

The RP recognizes that the determination of the adequacy, propriety and completion of the clean-up operation shall be determined by the designated Ohio EPA On-Scene Coordinator (OSC). By signing this statement, the RP acknowledges that it will assume initiation or continuation for the containment and clean-up operations, at the above mentioned location, immediately from the time and date stated below.

The signing of this statement by the responsible party shall not constitute an admission of fact or liability associated with the spill, release or discharge described herein. Nothing in this statement shall be construed to:

- A. Limit the authority of Ohio EPA to seek relief for the conditions or reimbursement of cost;
- B. Satisfy, discharge or release the responsible party from liability, resulting from spill, release or discharge of the substance mentioned above, and;
- C. Limit Ohio EPA's authority to intervene and commence, at any time, any or all of the clean-up activities or operations being conducted by the RP.

Michael Miller
Print name of responsible party's representative

[Signature]
Authorized Signature

Witnessed:

[Signature]
Signature of Ohio EPA OSC

Time and Date:

1610 hrs
12/03/2008

____ Refused To Sign



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

December 9, 2008

Mr. Keith Bouquet
Southern Illinois Railcar
1803 Ramada Boulevard
Suite B201
Collinsville, Illinois 62234

RE: Ohio EPA I.D. # 0812-02-4523

Dear Mr. Bouquet:

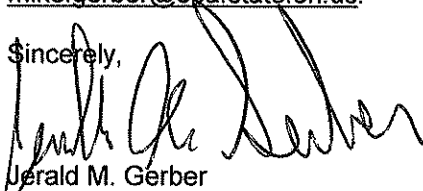
This letter is to advise you that the Ohio Environmental Protection Agency (Ohio EPA), Emergency Response Unit (ER) is closing out the emergency phase of this incident. It has been referred to the Ohio EPA, Division of Emergency and Remedial Response, Remedial Section, Mr. Archie Lunsey, and the Division of Surface Water, Mr. Tom Poffenbarger for further assessment and consideration. Please note however, that I will continue to be the contact for any current and/or future activities related to the emergency phase of this incident, and I will also continue to collect any data and/or documents related to the final emergency cleanup actions.

Regarding cost recovery, the Ohio EPA ER considers the emergency portion of this incident concluded. This means that any further work done by the Ohio EPA ER at this site including review of documents or any other incident-related work will not be included for cost recovery purposes. Please note this does not include or affect any other ongoing or future work activities that might involve any other programs within the Ohio EPA.

Ohio EPA reserves its right, pursuant to Chapters 3704, 3714, 3734, 3745, 3750, 6109, and 6111 of the ORC, and any other applicable State or Federal laws or regulations, to require further site investigation and/or abatement actions necessary to address releases or discharges into the environment at the above designated site; to seek civil penalties, reimbursement of oversight costs; and to enforce any other appropriate legal or equitable relief for any violations of laws.

If you have any questions concerning this letter, please contact me at (419) 373-3031, or by e-mail at mike.gerber@epa.state.oh.us.

Sincerely,



Gerald M. Gerber

On-Scene Coordinator
Division of Emergency & Remedial Response

pc: Mike Czezele, Supervisor, DERR
Archie Lunsey, Supervisor, DERR
Tom Poffenbarger, DSW
OSC Brian Kelly, US EPA Region 5, ER & Removal Section
DERR/CO
DERR/NWDO File

From: Mike Gerber
To: Poffenbarger, Tom
Date: 12/2/2008 5:35 PM
Subject: Photos from Allen Co. Monroe Twp. Chemtrade property
Attachments: 084508 015.jpg; Chemtrade 006.jpg; Chemtrade 001.jpg; Chemtrade 002.jpg; Chemtrade 004.jpg; Chemtrade 005.jpg

CC: Czeczele, Mike; Kelly.Brian@epamail.epa.gov; Wick, Elizabeth

Tom;

Please find attached the photos I took for the Chemtrade property on 12/01 & 12/02

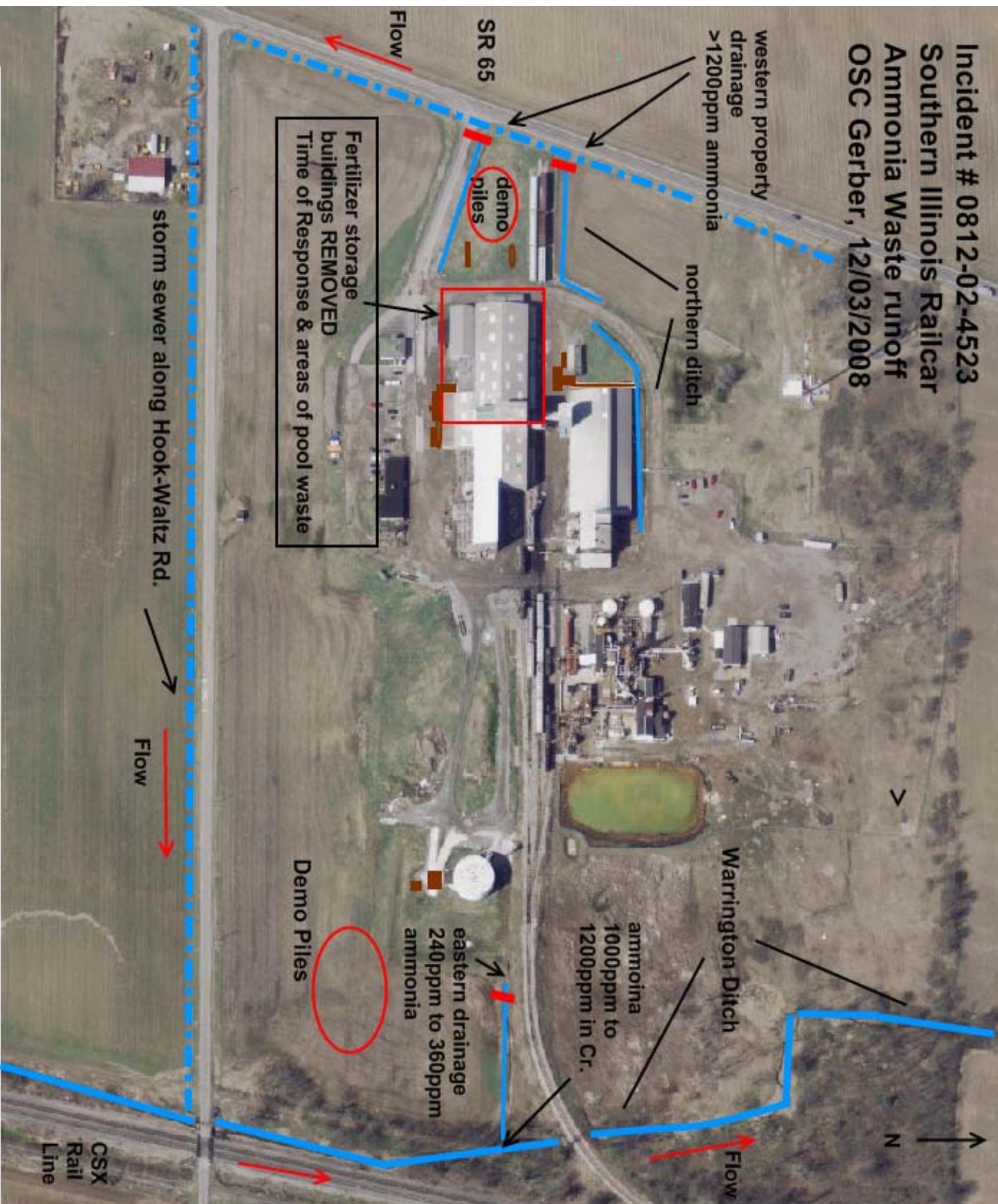
Tom

At 1712 hours I checked the samples from the drainage trench along SR 65 (discharging into a black tile adjacent to SR 65), and a sample taken from Warrington Ditch downstream from the facility. The ammonia field screening level from the SR65 trench was over 1200 ppm (the level of my test kit), and the result from the creek was between 800 ppm and 1000 ppm

The Nitrate for both the SR 65 trench/tile and Creek was over the field kit level of 150 ppm.

Mike Gerber

Incident # 0812-02-4523
Southern Illinois Railcar
Ammonia Waste runoff
OSC Gerber, 12/03/2008



Surface Water Sampling

December 3, 2008

Spill #
0812-02-
4523

Location	Ammonia (mg/L)	Nitrates (NH3) (mg/L)
SIL-01 East Ditch WEST	3,130	641
SIL-02 East Ditch WEST	3,100	620
SIL-03 West Ditch Outfall EAST	228	566
SIL-04 West Ditch EAST	728	275
SIL-05 Downstream Off-site	2.37	<0.10
SIL-06 On-site deep Ditch	665	643
SIL-07 On-site deep Ditch	3,600	515
SIL-08 Surface water	389	604
SIL-09 Surface water	695	199
SIL-10 Upstream	<0.20	1.82

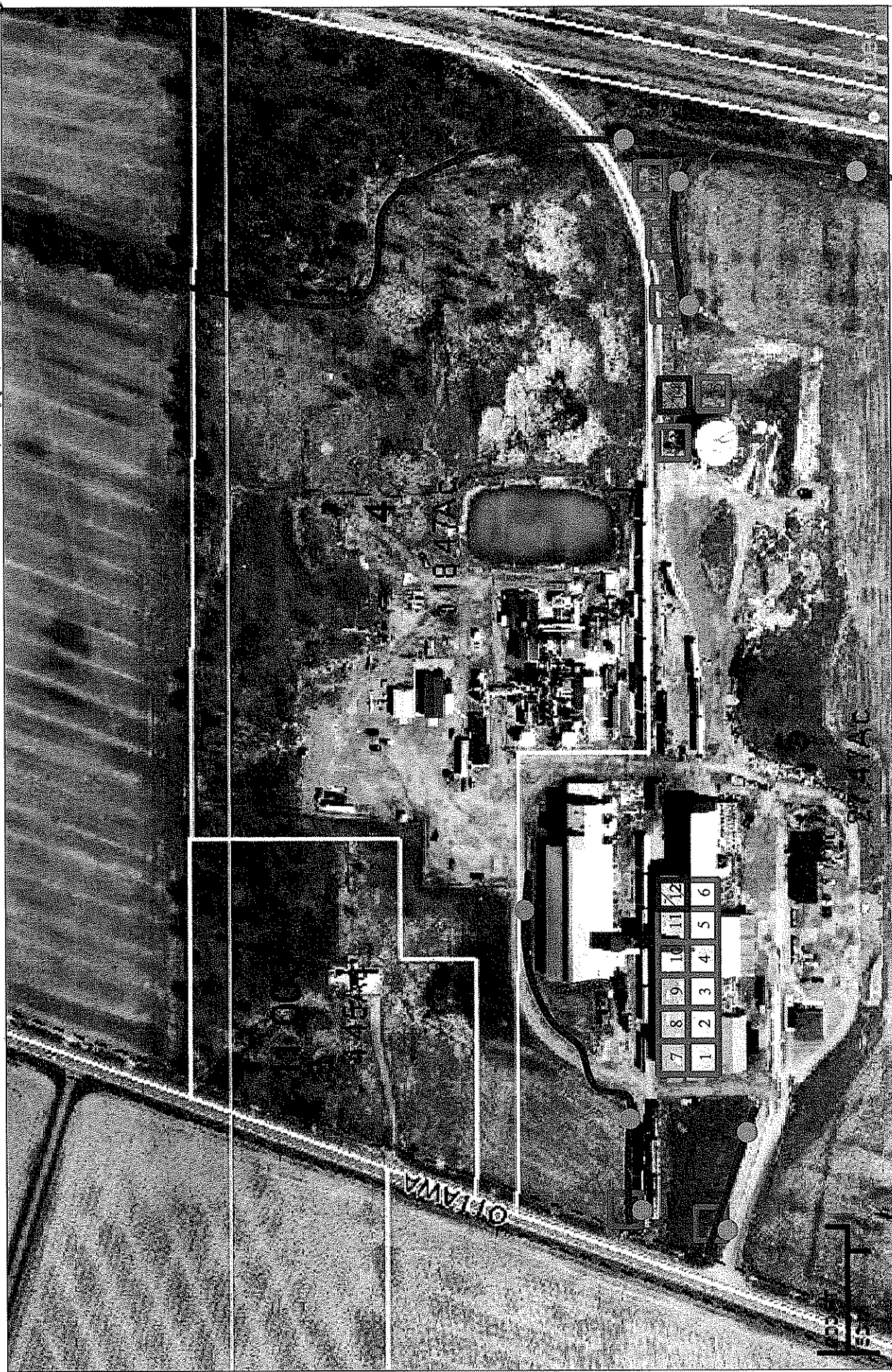
Southern Illinois RAILROAD

12/5/2008 MEETING

Spill #
0812-02-
4523

NAME	Affiliation
Michael BLAIR	WESTON SOLUTIONS (STAFF)
Andrew Ravis	WESTON SOLUTIONS (STAFF)
Keith Fusinski	US EPA
Brian Kelly	US EPA
MIKE Geiber	Ohio EPA-MUD-ETR
Tom Poffenbarger	Ohio EPA-NWDO-DSW
Doug Hanes	Allied RWU,
Matt Elkins	Allied Env. Services.
Chad Reynolds	Allied Env. Services
Mike Miller	SIR
Keith Bouquet	SIRC

Spill #0812-02-4523



● Sediment Sample

15 Surface Soil & Soil Boring Samples

14 Surface Soil & Soil Boring Samples

Groundwater Sample Collected w/ Temp. Well

~ Surface Water Sources

CONTRACTOR HEALTH AND SAFETY PLAN

Spill #
0812-02-
4523

1.0 GENERAL

The following protocol and Allied Health and Safety Plan are intended to establish a program to protect employees at the site and to facilitate coordination and communication of safety and health issues for personnel actively involved in remedial operations at the subject site.

1.1 WORK ON CLIENT PREMISES

Work assignments carried out on the subject site by Allied and its employees and subcontractors will comply with all applicable OSHA general industry and construction standards, safety practices standard to the subcontractors industry, and safety procedures followed by the facility owner. Voluntary clean-up at sites that are not recognized by the government as uncontrolled hazardous waste disposal sites are exempt from 29 CFR 1910.120 governing hazardous waste operations and emergency response.

1.2 WORK ON HAZARDOUS WASTE SITES AND OPERATIONS

The work to be carried out at the Southern Illinois Railcar facility under this protocol is not considered to be a hazardous waste site. However, hazardous materials are or may be present on the surface or subsurface. These materials may require the use of protective clothing and respiratory protective equipment to minimize chemical exposure.

In the event that air monitoring data indicates the airborne contaminants to exceed acceptable personal exposure levels (PEL), the contractor personnel must have the training and medical approvals required by the OSHA Construction and Industry standard. The contractor must certify that the personnel meet these guidelines. Contractor personnel will be supervised by Allied's OSHA Site Supervisor in the interim.

All personnel subject to exposure to hazardous substances or conditions shall wear at minimum, the protective equipment corresponding to the level of protection required by the Site Health and Safety Plan. The required level of personal protection equipment (PPE) shall be selected and used which will protect employees from the hazards and potential hazards identified during the site characterization and analysis. The level of employee protection may be increased or decreased when additional information on site conditions is obtained.

Allied Environmental does not warrant that this plan shall be sufficient for contractor's work. Subcontractors and on-site personnel must make an independent determination of the applicability of the Allied Plan to the subcontractors work and must comply with all applicable regulations and codes. The Subcontractors and on-site personnel must assume all liabilities associated with the implementation of the Plan.

All subcontractors shall maintain safe working conditions to safeguard employees, the public, and the environment in accordance with the Health and Safety Plan. The subcontractor shall notify Allied or Southern Illinois Railcar of any unforeseen hazard, safety-related factor, or condition they observe while performing work at this site.

2.0 ORGANIZATIONAL STRUCTURE

2.1 Contractors, subcontractors and regulatory agencies on this project who could be affected by the operations associated with this workplan and HASP include:

Allied Environmental Services, Inc. – Project support services in the form of OSHA 40-hour certified labor, manifesting of hazardous and non-hazardous waste, site health and safety plan, and coordination and set-up of the spill response procedures relating to materials released into the site storm sewers and the Warrington Ditch.

Cairo Monroe Township Fire Department – Project support in the form of preliminary spill response, heavy equipment and site security.

Southern Illinois Railcar – Personnel from SIRC will be on-site to provide information data related to the material released into the storm sewers and Warrington Ditch. SIRC staff will also be on-site to observe remediation efforts.

Ohio Environmental Protection Agency – The OEPA will be on-site to document remediation activities and assist with coordinating site activities.

Baker Tanks – Project support in the form of roll-off boxes, frac tanks and heavy-duty pumps.

Kinsinger, Inc. – Project support in the form of heavy equipment and equipment operators as well as providing construction materials at the site.

Tuttle Construction, Inc. – Project support in the form of site safety monitoring.

2.2 All personnel on this site must comply with the requirements of this HASP. The following personnel are designated to carry out the stated responsibilities and authority of management and/or safety and health functions on-site:

The **Project Manager (PM)** for hazardous waste operations on this site is Mr. Steve Carr with Allied Environmental. The PM has responsibility and authority to direct all work operations and coordinates safety and health functions with the Site Safety and Health Officer (SSHO). The PM prepares and coordinates the site work plan, serving as primary liaison with the client and site contractors.

The **Site Safety and Health Officer (SSHO)** for this site is Mr. Byron Winner from Tuttle Construction, Inc. The SSHO reports to the Project Manager, and is responsible for development and implementation of this HASP. The responsibilities of the SSHO are to manage the safety and health functions on the site; performing monitoring and assessing site conditions for effective selection and use of PPE at the subject site; and insuring the safety and well being of those present at the subject site.

The **Site Supervisor** for this site is Mr. Doug Hanes. The Site Supervisor is responsible for field operations and reports to the Project Manager. The Site Supervisor executes the work plan and schedule, coordinating with the SSHO to ensure site work requirements and implementation of the HASP.

Maintaining **Site Security** and controlling facility access and egress is the responsibility of Southern Illinois Railcar. Contact and coordinator for this activity is Mr. Michael Miller. Mr. Miller will assist with communication during an emergency, securing accident/incident scenes, and maintaining a log of site traffic.

3.0 COMPREHENSIVE WORKPLAN

The Southern Illinois Railcar facility located at 7570 Ottawa Road in Cairo, Ohio is conducting an emergency response clean-up of ammonia-contaminated surface waters, which is associated with the fertilizer manufacturing processes that had been occurring at the site since inception of the facility. This release, due to run-off of leaching contaminants at the site during structure demolition, has traversed through the storm sewers and catch basins on the site with an ultimate destination into the Warrington Ditch through an effluent pipe on the east side of the property. This release has resulted in a significant discoloration of the waters of the Warrington Ditch, as well as pooling waters and ditches on the site. It appears that ammonia may be generated from two products utilized at the site: Granular Monoammonium Phosphate and Diammonium Phosphate. These two products can release ammonia if left standing for periods of time or if it reacts with an alkali such as lime (Dolomite, Limestone, Ag Lima). Exposure to these materials may cause mild eye and skin irritation or nose and throat irritation. Material Safety Data Sheets (MSDS) are attached with this HASP.

The primary contractor, Allied, will establish each work zone. Allied personnel will then demarcate and restrict access to areas of remediation by means of caution tape and signs where applicable. Allied personnel will assist and coordinate subcontractors at the site during remediation activities.

Allied will first remove the primary source of contamination, which is the fertilizer/ammonia material that has accumulated in the surface waters at the site and in the Warrington Ditch near the effluent pipe, by utilizing industrial vacuum trucks to evacuate the contaminated water. Contaminated water will be staged in 20,000-gallon portable storage tanks at the site until waste profiling can be completed for disposal. Earthen dams will be constructed at various locations on the site to isolate drainage tiles and prevent migration from the property. Once the dams are installed and contaminated water has been extracted from the site, Allied and its subcontractors will establish a site assessment and sampling work plan to delineate contaminated soil at the site prior to remediation.

4.0 SITE ASSESSMENT AND MONITORING PROGRAM

Monitoring shall be performed where there may be a question of employee exposure to concentrations of hazardous substances. This will provide for proper selection of engineering controls, work practices, and personal protective equipment so that employees are not exposed to levels which exceed permissible exposure limits for hazardous substances. Air monitoring shall be used where necessary to identify and quantify airborne levels of hazardous substances and safety and health hazards in order to determine the appropriate level of employee protection needed on site.

5.0 TRAINING PROGRAM

All on site workers with a potential for exposure to health hazards or hazardous materials shall participate in a training program as a part of the site safety and health program. Contractors shall be informed of the site emergency response procedures and any potential fire, explosion, health, safety or other hazards of the hazardous waste operation. Participants shall be trained to a level of competence in the recognition of health and safety hazards to protect themselves and other employees and to enable employees to perform their assigned duties and functions in a safe and healthful manner so as to not endanger themselves or fellow workers. Such training shall include discussion of Personal Protective Equipment (PPE), elements of the emergency response plan, and the recognition of symptoms that may result from over exposure.

Elements of the emergency response plan to be discussed shall include the following:

- (A) Personnel roles, lines of authority, and communication
- (B) Emergency recognition and prevention
- (C) Safe distances and places of refuge
- (D) Site security and control
- (E) Evacuation routes and procedures
- (F) Emergency medical treatment and first aid
- (G) PPE and emergency equipment

6.0 MEDICAL SURVEILLANCE

Allied shall utilize the services of a physician to provide medical surveillance as required by OSHA regulations. Medical surveillance protocol for Allied's employees shall be instituted for:

1. All personnel who are or may be exposed to hazardous substances or health hazards at or above permissible exposure limits;
2. All employees who wear a respirator for 30 or more days a year
3. All employees who are injured, become ill, or develop symptoms due to possible overexposure involving hazardous substances or health hazards from a hazardous waste operation.

Allied shall make medical examinations available to each of its employee prior to commencement of the project and at least once every 12 months. Accurate records of the medical surveillance shall be retained by the employer, and shall include the name and social security number of the employee and the physician's written opinions, recommended limitations, and results of recommended limitations and results of examinations.

7.0 PERSONAL PROTECTION EQUIPMENT

Selection of PPE is based on the consideration of several factors, including identification of the hazards, their routes of potential hazard to employees (inhalation, skin absorption, ingestion, and eye or skin contact); and the performance of the PPE in providing a barrier to these hazards. The amount of protection provided by PPE is material-hazard specific. Other factors in the selection process to be considered are matching the PPE to the work requirements and task-specific conditions. The more that is known about the hazards at the site, the easier the job of PPE selection becomes. As more information about the hazards and conditions at the site becomes available the site supervisor can decide to up-grade or downgrade the level of PPE protection required.

Personal protective equipment is divided into four categories based on the degree of protection afforded.

- Level A* – To be selected when the greatest level of skin, respiratory, and eye protection is required.
- Level B* – The highest level of respiratory protection is necessary but a lesser level of skin protection is required.
- Level C* – The concentration and type of airborne substance is known and the criteria for using air-purifying respirators are met.
- Level D* – A work uniform affording minimal protection; used for nuisance contamination only.

Level C protection shall be initially utilized for remedial operations at the subject site.

Level C protection should be used when:

- ♦ The atmospheric contaminants or other direct contact will not adversely affect or be absorbed through any exposed skin.
- ♦ The types of air contaminants have been identified, concentrations measured, and air-purifying respirator is available that can remove the contaminants
- ♦ All criteria for the use of air-purifying respirators are met

In the event that personal air monitoring results exceed the OSHA PEL, Allied personnel and those subject to a hazardous environment, shall increase their level of protection by donning supplied air or self-contained breathing apparatus as recommended for respirator selection in the NIOSH Pocket Guide to Hazardous Chemicals.

8.0 OUTSIDE ASSISTANCE

FOR ALL EMERGENCIES DIAL 911

Following is a list of emergency telephone numbers for outside assistance:

Agency	Contact	Telephone No.
Ambulance/EMS	Cairo Rescue Squad	(419) 641-2222
Police	Allen County Sheriff	(419) 227-3535
Fire	Cairo Monroe TWP FD	(419) 641-2222
Local Emergency Response	Allen County EMA	(419) 227-3535
Primary Medical Facility	St. Rita's Medical Center	(419) 227-3361

Dolomite



MATERIAL SAFETY DATA SHEET

Dolomite, Dolomitic Limestone, & Carey Dried Stone

MSDS prepared by: Mgr. Of Technical Services

October 17, 2005

National Lime & Stone
551 Lake Cascade Pky
PO Box 1200
Findlay, OH 45839

Phone: 419-422-4341
Emergency: 419-396-7671

SECTION I - PRODUCTION IDENTIFICATION

NLS Products: 10; 10 40; 10 50; 10BB; 11 11P; 12; 12 50; 12BB; 20; 20 40; 20 50; 20BB; 30; 30 50; 6X16; 6X16BB; 60; 60 50; 80; 80 50; DLP; DMI; DMI 50; DMIBB; PDL 50; PDLBB

Trade Name & Synonyms: Dolomite, Limestone, Ag Lime

Chemical Name & Synonyms: Dolomitic Limestone

Chemical Family: Alkaline Earth Carbonate

Formula: $\text{CaCO}_3 - \text{MgCO}_3$

CAS # 16389-88-1, 1317-65-3, 471-34-1 and 546-93-0

SECTION II - HAZARDOUS INGREDIENTS

Composition varies, may contain quartz.

Dolomitic Limestone is not listed on the NTP, IARC, or OSHA lists of carcinogens, but crystalline silica, a component of this product, is listed. IARC has determined that there is sufficient evidence of carcinogenicity to experimental animals exposed to crystalline silica and limited evidence for carcinogenicity to humans. "Limited evidence" means that a casual relationship is possible; however, other explanations such as chance, bias or confounding factors cannot adequately be excluded.

SECTION III - PHYSICAL DATA

Boiling point: Decomposes 1100 - 1700° F

Specific gravity: 2.7 - 2.9

% volatility volume: NA

Vapor pressure: NA

Vapor density: NA

Solubility in water: Negligible

Evaporation rate: NA

Appearance and odor: White to gray solid odorless

Dolomite

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash point:
Flammable limits:
Extinguishing media:
Special fire fighting procedures:
Unusual fire and explosion hazards:

NA
Not flammable
None required
None required
When heated at 1700° F or more for prolonged periods, dolomitic limestone decomposes into dolomitic quicklime (CaOMgO) releasing carbon dioxide (decomposition can begin at 1100°F).

SECTION V - HEALTH HAZARD DATA

Threshold limit value:
Effects of overexposure:
Emergency and first aid procedures:

Exposure limits vary with the % quartz dust. Refer to ACGIH and MSHA for current TLV's and TWA's.
Exposure to dust may irritate respiratory system, eyes or skin.
Dust in eyes - flush with clear water. Dust on previously irritated skin - wash with soap and water. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists.

SECTION VI - REACTIVITY DATA

Stability:
Incompatibility:
Hazardous decomposition products:
Hazardous polymerization:

Unstable - reacts with acids evolving CO₂. Stable if no acids are present.
Contact with acids.
When heated at 1100 - 1700° F, dolomitic limestone decomposes into dolomitic quicklime releasing carbon dioxide gas.
Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released:

Waste disposal method:

Spilled materials, where dust is generated, may overexpose clean-up personnel to respirable dust. Use of respiratory protective equipment may be necessary. Dolomitic limestone may be wetted with water to control dusting.
Pick up and reuse clean materials. Dispose of waste materials only in accordance with applicable federal, state, and local laws and regulations.

Dolor, te



SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory protection:

NIOSH-MSHA approved dust respirators for conditions where dust levels may exceed exposure limits.

Ventilation:

As required to maintain exposures below TLV's. Vent dust to collector.

Eye protection:

Dust goggles should be worn when visibly dusty conditions exist.

SPECIAL PRECAUTIONS

No special precautions required. Respirable dust levels should be monitored regularly. May cause pitting of aluminum.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of National Lime and Stone Company's knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

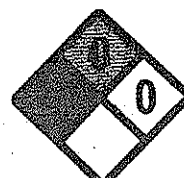
NATIONAL LIME & STONE COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. THE DETERMINATION OF PRODUCT SUITABILITY FOR ANY PARTICULAR USE IS THE SOLE RESPONSIBILITY OF THE PURCHASER AND USER.

This Product is NOT intended to be used as a food source, component or ingredient. It is NOT produced in compliance with state or federal regulations governing products consumed or intended for consumption by humans or animals and should not be used for such purposes.

IN THE EVENT OF BREACH OF ANY WARRANTY OF ANY TYPE, THE SOLE REMEDY OF THE PURCHASER AND/OR USER SHALL BE REPLACEMENT OF THE PRODUCT PURCHASED. UNDER NO CIRCUMSTANCES WILL SELLER BE LIABLE FOR DAMAGES INCLUDING INCIDENTAL OR CONSEQUENTIAL DAMAGES, REGARDLESS OF THE LEGAL THEORY UPON WHICH A CLAIM MAY BE BASED.

Fertilizer

Material Safety Data Sheet

IMC
AGRICOLANFPA Codes
& Hazard Rating
Scale**GMAP**

(Granular Monoammonium Phosphate)

EMERGENCY NUMBERS:

Transportation: 800.424.9300 (CHEMTREC)

Health: 800.282.9024

Identification	Fire & Explosion	Spill/Leak/Disposal
Composition	Reactivity Data	Special Protection
Physical Data	Health Hazard	Special Precaution

Identification

PRODUCT NAME — Granular Monoammonium Phosphate (GMAP)

CAS NO. — 7722-76-1

CHEMICAL FAMILY — Inorganic Salt

MOLECULAR WEIGHT — 115

CHEMICAL NAME — Ammonium Phosphate, Monobasic

FORMULA — $(\text{NH}_4)\text{H}_2\text{PO}_4$

DOT CLASS — Not Regulated by DOT

Composition**COMPOSITION**

% CAS NO.

Hazardous Ingredients (Typical)

Fluorides, as F

1.2-3.0 —

Other Ingredients (Typical)

Monoammonium phosphate

79 - 84 7722-76-1

Iron, aluminum & magnesium sulfates, phosphates, silicates 12 - 17 —

Sodium & potassium salts

1 —

Moisture

1.3 7732-28-5

Physical Data

MELTING POINT — 374 Degrees F
BULK DENSITY, loose — 57 - 60 lbs/ft³
VAPOR PRESSURE, mm Hg — Not Applicable
PERCENT VOLATILE — None
SOLUBILITY IN WATER — Appreciable
pH, 1% Solution — 4.2 - 5.0
APPEARANCE AND ODOR — Odorless tan to brown granules

Fire & Explosion

FLASH POINT — Not applicable.
FLAMMABLE LIMITS — Not applicable.

EXTINGUISHING MEDIA — Not applicable. GMAP is a non-flammable inorganic salt. It is used as a fire retardant, since dehydration to the meta form above 300 degrees F in the presence of water or steam absorbs heat and cools the fire. When heated to temperatures above 300 degrees F it may release small amounts of toxic and/or irritating ammonia and fluorides. Use any extinguishing media required for surrounding fire. Firefighters and emergency personnel should use self-contained breathing apparatus and full protective clothing.

Reactivity Data

STABILITY — GMAP is stable under all normal conditions.
INCOMPATIBILITY (Materials to avoid) — Alkalis, heat. Alkalis will cause release of ammonia.
HAZARDOUS POLYMERIZATION — Will not occur.

Health Hazard

OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH TLV — None established. We suggest the OSHA nuisance dust limit of 15 mg/m³ or the ACGIH TLV of 10 mg/m³ of air for an eight-hour time-weighted-average. GMAP (monoammonium phosphate) is not considered to be a cancer-causing material by OSHA, NIOSH, or IARC.

ROUTES OF ENTRY — Lungs (breathing), skin. Ingestion (swallowing) of large amounts is unlikely.

EFFECTS OF OVEREXPOSURE — *Short Term*: May cause slight irritation of the skin, eyes, nose, or throat. *Long Term*: No information found. As with any inorganic dust, long-term inhalation of dust concentrations higher than recommended Permissible Exposure Limits may cause delayed lung injury. However, GMAP is more than 85% water soluble, and is not likely to accumulate in the lungs.

TOXICITY DATA — None found.

FIRST AID — **Eyes:** Flush thoroughly with running water, including under the eyelids. See a physician if discomfort or irritation persists. **Skin:** Wash with water. **Inhalation:** Remove to fresh air. Get medical attention if discomfort persists. **Ingestion:** If conscious, give large amounts of water to dilute. Do not induce vomiting. Get medical attention if a large amount of GMAP is swallowed.

Spill, Leak & Disposal

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED — GMAP is used as a plant food. However, large spills can kill vegetation. Prevent large quantities from entering waterways. If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

WASTE DISPOSAL METHOD — Uncontaminated material can generally be disposed of by burial in an approved land disposal facility, in accordance with applicable federal, state, and local regulations. Depending upon type and extent of contamination, if any, other disposal methods may be required by environmental regulatory agencies.

Special Protection

RESPIRATORY PROTECTION — If dust concentrations exceed recommended exposure limit, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.

EYE PROTECTION — If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

SKIN PROTECTION — No protection normally required. If irritation occurs, long sleeves and impervious gloves should be worn.

VENTILATION — Local exhaust or other ventilation that will reduce dust concentrations to less than the recommended Permissible Exposure Limit.

OTHER PROTECTIVE EQUIPMENT — Optional.

Special Precaution

None.

 Return to Phosphate Products

IMC-Agrico Company • 2345 Waukegan Road • Suite E-200 • Bannockburn, IL 60015 • Phone: 847.607.3000

Revised March, 1995.

Fertilizer
Material Safety Data Sheet



NFPA Codes
& Hazard Rating
Scale

DAP(Diammonium Phosphate)

EMERGENCY NUMBERS:

Transportation: 800.424.9300 (CHEMTREC)

Health: 800.282.9024

Identification	Fire & Explosion	Spill Leak Disposal
Composition	Reactivity Data	Special Protection
Physical Data	Health Hazard	Special Precaution

Identification

PRODUCT NAME — Diammonium Phosphate (DAP)

CAS NO. — 7783-28-0

CHEMICAL FAMILY — Inorganic Salt Mixture

MOLECULAR WEIGHT — Not Applicable

CHEMICAL NAME — Not Applicable

FORMULA — Not Applicable

DOT CLASS — Not Regulated by DOT

Composition

COMPOSITION (Typical)	%	CAS NO.
Hazardous Ingredients(Typical)		
• Fluorides, as F	2.0	—
Other Ingredients (Typical)		
• Diammonium phosphate	85.5	7783-28-0
• Iron, aluminum & magnesium, sulfates, phosphate, silicates	10 - 12	—
• Sodium & potassium salts	1	—
• Moisture	0.5-2	7732-28-5

Hazardous Ingredients(Typical)

• Fluorides, as F

2.0

—

Other Ingredients (Typical)

• Diammonium phosphate

85.5

7783-28-0

• Iron, aluminum & magnesium, sulfates, phosphate, silicates

10 - 12

—

• Sodium & potassium salts

1

—

• Moisture

0.5-2

7732-28-5

Physical Data

MELTING POINT — 310 Degrees F (Decomposes)

BULK DENSITY, loose — 55 - 58 lbs/ft³

VAPOR PRESSURE, mm Hg — Not Applicable

PERCENT VOLATILE — None

SOLUBILITY IN WATER — Appreciable

pH, 1% Solution — 7.4 - 7.7

APPEARANCE AND ODOR — Gray granules or powder, ammoniacal odor when confined

Fire & Explosion

FLASH POINT — Not applicable.

FLAMMABLE LIMITS — Not applicable.

EXTINGUISHING MEDIA — Not applicable. DAP is a non-flammable inorganic salt. It will not support combustion. When subjected to temperatures below about 310 Degrees F in the presence of water or steam, it will release toxic and/or irritating ammonia and small amounts of fluorides. When rapidly heated dry above 310 Degrees F, it will release ammonia. Use any extinguishing media required for surrounding fire. Firefighters and emergency personnel should use self-contained breathing apparatus and full protective clothing.

Reactivity Data

STABILITY — DAP is stable under all normal conditions, but will slowly release ammonia on standing.

INCOMPATIBILITY (Materials to avoid) — Alkalis, heat. Alkalis will cause release of ammonia.

HAZARDOUS POLYMERIZATION — Will not occur.

Health Hazard

OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH TLV — None established. We suggest the OSHA nuisance dust limit of 15 mg/m³ or the ACGIH TLV of 10 mg/m³ of air for an eight-hour time-weighted-average. DAP (diammonium phosphate) is not considered to be a cancer-causing material by OSHA, NIOSH, or IARC.

ROUTES OF ENTRY — Lungs (breathing), skin. Ingestion (swallowing) of large amounts is unlikely.

EFFECTS OF OVEREXPOSURE — *Short Term:* May cause slight irritation of the skin, eyes, nose, or throat. *Long Term:* No information found. As with any inorganic dust, long-term inhalation of dust concentrations higher than recommended Permissible Exposure Limits may cause delayed lung injury. However, DAP is more than 85% water soluble, and is not likely to accumulate in the lungs.

TOXICITY DATA — None found.

FIRST AID — Eyes: Flush thoroughly with running water, including under the eyelids. See a physician if discomfort or irritation persists. **Skin:** Wash with water. **Inhalation:** Remove to fresh air. Get medical attention if discomfort persists. **Ingestion:** If conscious, give large amounts of water to dilute. Do not induce vomiting. Get medical attention if a large amount of DAP is swallowed.

Spill, Leak & Disposal

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED — DAP is used as a plant food. However, large spills can kill vegetation. Prevent large quantities from entering waterways. If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

WASTE DISPOSAL METHOD — Uncontaminated material can generally be disposed of by burial in an approved land disposal facility, in accordance with applicable federal, state, and local regulations. Depending upon type and extent of contamination, if any, other disposal methods may be required by environmental regulatory agencies.

Special Protection

RESPIRATORY PROTECTION — If dust concentrations exceed recommended exposure limit, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.

EYE PROTECTION — If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

SKIN PROTECTION — No protection normally required. If irritation occurs, long sleeves and impervious gloves should be worn.

VENTILATION — Local exhaust or other ventilation that will reduce dust concentrations to less than the recommended Permissible Exposure Limit.

OTHER PROTECTIVE EQUIPMENT — Optional.

Special Precaution

If stored in a confined space, use of an ammonia respirator or self-contained breathing apparatus may be required to protect against ammonia.

 [Return to Phosphate Products](#)

IMC-Agrico Company • 2345 Waukegan Road • Suite E-200 • Bannockburn, IL 60015 • Phone: 847.607.3000

Revised March, 1995.

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 5:06:13 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Warrington Ditch upstream of Hook-Waltz Rd. overpass and discharge from Southern Illinois property. Ammonia reading 0.3 ppm

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 4:49:32 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Chemetrics ammonia field test from western drainage ditch on Southern Illinois Railcar property (adjacent to driveway). Note ammonia level over test kit limit of 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 4:33:48 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Earth dam installed by Allied Environmental in western drainage ditch (north section of property) north of rail line). Note ammonia level above 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 4:33:15 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Earth dam installed in western drainage ditch north of facility driveway. Note ammonia level over 1200 ppm & brown discoloration of surface liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 4:32:58 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Earth dam installed in western drainage ditch north of facility driveway. Note ammonia level over 1200 ppm & brown discoloration of surface liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 3:33:05 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Note strong ammonia/urea odor downwind of demo material.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 3:32:28 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Note strong ammonia/urea odor downwind of demo material.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 3:32:20 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Note strong ammonia/urea odor downwind of demo material.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 3:10:48 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage tile on northeastern section of property flowing east into Warrington Ditch. Note ammonia readings between 240 ppm and 360 ppm on kit. Surface liquid clear.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 3:10:35 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage tile on northeastern section of property flowing east into Warrington Ditch. Note ammonia readings between 240 ppm and 360 ppm on kit. Surface liquid clear.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 3:02:46 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Rail repair shop (view looking east). White solid material in wood on side of building. Adjacent western structure was once fertilizer storage building.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 3:02:36 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Dark brown liquid with ammonia levels above 1200 ppm on southwestern side of fertilizer storage building.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 3:02:30 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Dark brown liquid with ammonia levels above 1200 ppm on southwestern side of fertilizer storage building.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 2:38:04 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Lime storage building east of rail shop. Material on ground with dark brown liquid. Ammonia reading 100 ppm from liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 2:37:52 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Lime storage building east of rail shop. Material on ground with dark brown liquid. Ammonia reading 100 ppm from liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 2:37:44 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Lime storage building east of rail shop. Material on ground with dark brown liquid. Ammonia reading 100 ppm from liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 2:37:38 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Lime storage building east of rail shop. Material on ground with dark brown liquid. Ammonia reading 100 ppm from liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 2:37:08 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Strong ammonia/urea odor on downwind side of piles.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:51:28 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 2:35:52 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Strong ammonia/urea odor on downwind side of piles.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 2:35:37 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Demo debris on eastern section of property. Strong ammonia/urea odor on downwind side of piles.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 1:39:20 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage area on western section of property north of rail tracks draining to west (SR 65). Note old straw dam.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 1:21:15 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Pooled dark brown liquid on property south demo site. Ammonia reading over 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 1:21:04 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Pooled dark brown liquid on property south demo site. Ammonia reading over 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 1:17:17 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Old residual fertilizer in fertilizer storage building on north side of property. Note standing liquid on cement floor of building.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 1:16:59 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Old residual fertilizer in fertilizer storage building on north side of property. Note standing liquid on cement floor of building.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:59:38 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage ditch north of driveway with brown liquid flowing to west (SR 65). Note ammonia reading in ditch above 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:58:45 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid pooled on soil in demo area (western section of property) were fertilizer storage building once stood.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:56:25 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid on soil in demo area were fertilizer storage building once stood.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:55:25 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid and soil staining along north side of standing fertilizer building. Drainage from area into north ditch on property.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:54:58 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid and soil staining along north side of standing fertilizer building. Drainage from area into north ditch on property. Ammonia reading from puddle 480 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:54:03 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: North ditch area on property with dark brown liquid. Flow from ditch to west (SR 65).

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:53:16 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid and soil staining along north side of standing fertilizer building. Drainage from area into north ditch on property.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:52:15 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: North ditch area on property with dark brown liquid. Flow from ditch to west (SR 65).

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:51:17 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: North ditch area on property with dark brown liquid. Flow from ditch to west (SR 65).

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:50:35 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: North ditch area on property with dark brown liquid. Flow from ditch to west (SR 65).

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:50:12 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Yellow drainage tile discharging brown liquid and a white solid material into northern property drainage discharge flowing west to SR 65. Note ammonia reading over 1200 ppm & pH 11 from tile liquid.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:49:21 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid pooled on soil in demo area (western section of property) were fertilizer storage building once stood.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:49:06 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid pooled on soil in demo area (western section of property) were fertilizer storage building once stood.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:48:07 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Brown liquid pooled on soil in demo area (western section of property) were fertilizer storage building once stood.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/3/2008 12:13:41 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Storm sewer tile on east side of SR 65 (downstream of Southern Illinois Rail Car property) cut off due to gasoline tanker spill.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/3/2008 12:13:30 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Storm sewer tile on east side of SR 65 (downstream of Southern Illinois Rail Car property) cut off due to gasoline tanker spill. Ammonia reading over 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/2/2008 12:31:37 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage area on eastern section of Southern Illinois property draining into Warrington Ditch.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/2/2008 12:31:31 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Warrington Ditch east side of property. Ammonia reading between 1000 ppm and 1200 ppm in creek.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/2/2008 12:30:22 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Facility view from east looking west from Creek bank.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/2/2008 12:03:29 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage ditch flowing to balck tile discharging into SR 65 sewer line upstream of gasoline tanker release. Ammoia reading found to be over 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008



12/2/2008 12:03:20 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage ditch flowing to balck tile discharging into SR 65 sewer line upstream of gasoline tanker release. Ammoia reading found to be over 1200 ppm.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/4/2008 1:57:17 PM

0812-02-4523 (Southern Illinois Railcar- Ammonia Release)



12/1/2008 1:17:28 PM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Drainage ditch flowing to balck tile discharging into SR 65 sewer line upstream of gasoline tanker release. Unknown brownish discharge from facility.

Additional Description: PDF transferred to DERR ER CO on 12/04/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) on 12/04/2008

12/8/2008 8:33:57 AM

0812-02-4523 (Follow-up on 12/05/2008)



12/5/2008 11:30:13 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Pit on north side of demoed fertlizer building and south side of rail line. Note waste liquid in pit & start of yellow drainage line discharging to north on property ditch.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008



12/5/2008 11:28:27 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Residual fertilizer over elevator pit filled with waste liquid in standing fertilizer building.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008

12/8/2008 8:33:57 AM

0812-02-4523 (Follow-up on 12/05/2008)



12/5/2008 11:28:14 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Elevator pit filled with waste liquid in standing fertilizer building.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008



12/5/2008 11:27:54 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Residual fertilizer over elevator pit filled with waste liquid in standing fertilizer building.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008

12/8/2008 8:33:57 AM

0812-02-4523 (Follow-up on 12/05/2008)



12/5/2008 11:27:09 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Residual fertilizer in standing fertilizer building. Note fertilizer in building wood walls.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008



12/5/2008 11:26:56 AM 0812-02-4523

Taken By: Jerald M. Gerber

Permanent Description: Residual fertilizer in standing fertilizer building. Note fertilizer in building wood walls.

Additional Description: PDF transferred to DERR ER CO on 12/05/2008.

Incident Referred to Ohio EPA DERR RS (Mr. Archie Lunsey) & DSW (Mr. Tom Poffenbarger) on 12/04/2008